

Page 1

Friday, June 10, 2011 4:14:58 PM Item ID: D3391-025 Accept Setup Start Revision ID: Stop Item Name: Aft Tube Assembly Start Qty: 1.00 **Start Date:** 6/10/2011 **Cust Item ID:** Required Date: 6/30/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: MX Tooling: Approvâls: Date: Stop Date: QC: SPC (Y/N): Date: Sequence 1D/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept .Work Center ID Description Qty Qty Number Stamp **Run Hours** Code Draw Nbr **Revision Nbr** D3391 Rev H/DEO 100 0.00 MORI SEIKI CNC LATHE LARGE Mori Seiki Memo Rev: 4-& Dwg D3391 Rev: 1 Mori Seiki CNC Lathe Large ***scribe batch # on fwd end at 90 degree*** 110 QC2- Inspect parts off machine FAI/FAIB Memo Quality Control QC8- Inspect parts - second check 0.00 Memo Quality Control

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W/O:			WC	ORK ORDER CHANG	ES				1
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	Resolution:		_ Dispositio	n:	QA: N/C Ci	osed:		Date: _	
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Page 2

Insp.

Stamp

Friday, June 10, 2011 4:14:58 PM Item ID: D3391-025 Accept Setup Start **Revision ID:** Stop **Item Name:** Aft Tube Assembly Start Oty: 1.00 **Start Date:** 6/10/2011 **Cust Item ID:** Req'd Oty: 1.00 Required Date: 6/30/2011 **Customer:** Reference: Start Run Process Plan: Date: Tooling: Approvals: Date: Stop Date: _____ SPC (Y/N): Date: OC: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Number Work Center ID Qty Qty Description **Run Hours** Code 0.00 120 HAAS CNC VERTICAL MACHINING #1 B.A 11/06/20 0.00 HAAS 1 HAAS CNC vertical machine #1 1-Machine as per Folio FA 599 Rev: AA & Dwg D3391 Rev: H 2-Deburr 130 QC2- Inspect parts off machine FAI/FAIB 0.00 B.A 11/06/20 QC 0.00 Memo Quality Control

Quality Control

Memo

QC8- Inspect parts - second check

0.00

of 1/04/22

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W/O:			W	ORK ORDER CHAN	GES	· · · · · · · · · · · · · · · · · · ·			
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Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

6/10/2011

Start Qty: 41.00

Required Date: 6/30/2011 Req'd Qty: 1.00



\ Date:

Cust Item ID: -

Customer:

Reference:

Approvals:

QC:

Process Plan:

Date:

Tooling:

0.00

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:

Run Start



Stop

Sequence ID/

Work Center ID

Skidtubes

Skidtubes

Skidtubes

Operation

Description

Memo

0.00

1-Drill (PILOT HOLE) aft cap holes per Dwg D3391 using DT8803

Tool ID

Tool # Plan Code Accept Qty

Reject Qty

Reject Number Stamp

Insp.



CNC Bend 1

CNC Delta 100 Bender

0.00

BENDING MACHINE - SKIDTUBES

Memo

0.00

Form as per Dwg D3391 Using Bend Prog 3391025

H4:235

170

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

11-6-22

1 0 BE11/06/22

Quality Control

W/O:		WORK ORDER CHANGES					
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Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 6/30/2011

6/10/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

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Process Plan: _____ Date: ____

Tooling:

Date: Date: Run Start



QC:

Date:

SPC (Y/N):

Reject Qty

Reject

Insp.

Sequence ID/ Work Center ID

Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Qty

Stop

Number Stamp

Memo

0.00

0.00

1-Open Aft cap pilot hole to .208" as per Dwg D3391

2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only.

3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig .

*****Do Not Open To Finished Size****

4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from previously drilled aft wearplate holes.

5-Open wearplate holes to 0.250" and c'bore as per dwg D3391

6-Open up all wearshoe, wearplate to 0.297" and float bag holes to 0.328" as per

7-Deburr

11-6-22.

4/6/23

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Item ID:

D3391-025

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Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

6/10/2011

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

Date:

Run

Start

Stop



Required Date: 6/30/2011

QC:

Date:

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Date:

Tool # Plan

Code

Accept Qty Qty

Reject Reject

Insp. Number Stamp

Sequence ID/

Work Center ID

190

OC

Ouality Control

Operation Description

QC5- Inspect part completeness to step on W/O

0.00

0.00 & w/o4/23

Memo

200



HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

SAD 11-06-27

Memo

210



Quality Control

QC3-Inspect Part Finish

0.00

Memo

0.00

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Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name: **Start Date:**

Aft Tube Assembly

6/10/2011

QC:

Start Qty: 1.00

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: Date: Tooling:

Date: _____

Date:

Date:

Start

Stop



Required Date: 6/30/2011

Sequence ID/ **Work Center ID**

220

Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/

Run Hours

0.00

0.00

Memo

Instal spacers as per dwg D3391 A/R Magnabond 6398 Batch: M 116945

exp. date : 12/01/15 cure time 12hrs as per QS10015

230

Quality Control

OC5- Inspect part completeness to step on W/O

Memo

235

HandFinish Hand Finishing Pressure Wash per QSI005 4.3

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

1X & M. f. 11/06/27

SPC (Y/N):

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Run

Reject Number Stamp

Insp.

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Item ID:

D3391-025

Accept



Setup

Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

6/10/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Run

Start

Stop



Required Date: 6/30/2011

QC:

Date:

SPC (Y/N):

Tool ID

Tool # Plan

Code

Accept Qty

Reject Oty

Reject Number

Insp. Stamp

Sequence ID/

Work Center ID

240

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

Set Up/

Run Hours

OVEN TEMPERATURE:

Memo

OC

Quality Control

QC3- Inspect Part Finish

0.00

0.00

260

HandFinish Hand Finishing HandFinishing

Memo

1-Install inserts as per Dwg D3391 2-Install Aft Cap as per Dwg D3391 A/R Sikaflex-241/-291 113616

Sikaflex expiry date: 15 D

0.00

0.00

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Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 6/30/2011

6/10/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

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Process Plan: Date:

Tooling:

Date:

Date:

Run

Start

Stop



QC:

Date: ___

SPC (Y/N):

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Insp. Stamp Number

Sequence ID/ Work Center ID

270

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Memo

Memo

Set Up/ **Run Hours**

280



Packaging

Packaging

Identify as per dwg & Stock Location: WO

0.00 D 412-742-043/B70642

0.00

290

QC21- Final Inspection - Work Order Release

0.00

Quality Control

0.00

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Picklist Print

Friday, June 10, 2011 4:14:55 PM

Work Order ID: 70659

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 6/10/2011

Required Date: 6/30/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

IPP Rev:C 06-03-28

ECN773 dwg rev. D EC Update Manuf. Instructions JLM 🗆 🗆 🗆

revF dwg EC

IPP rev D 07.03.20 IPP rev E 07.11.07

rev G dwg ecn 1053p EC verified by: DD

DD verified by: EC IPP Rev:F 07-11-13 ECN 1056 IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC

Manufactured

Manufactured

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6014-090		Manufactured	No			100	Each	3.0000		1			

ALUMINUM EXTRUSION

Location	Loc	e Qtv	Loc Code		ŕ		•
LG		3				.	
\$6572		3			2	anm.	4/08/15
	230	Each	31.0000	4	4	, , , ,	د ا اع

SPACER

D3670-4-200

Location	Loc Qty	Loc Code
.G	31	
68950	31	

270

24.0000

Each

Location Loc Qty Loc Code FP006 23 62678 23 FP-4 69019

Aft Cap

D2646

W/O:			V	VORK ORDER CHANG	ES			
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Picklist Print

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Page 2

Work Order ID: 70659 Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly Required Date: 6/30/2011 Start Date: 6/10/2011 Start Qty: 1.00 Required Qty: 1.00 D3537-1 Manufactured No 270 Each 51.0000 11/06/27 Wearpad Location Loc Otv Loc Code FP017 51 1369278 69817 51 D3537-7 Manufactured No 270 Each 1.0000 Wearpad Location Loc Qty Loc Code FP017 B64320 65146 1 D3553-1 13.0000 Manufactured No 270 Each Hl 1106/27 Gasket Location Loc Qty Loc Code FP013 13 13 56568 D3553-3 Manufactured No 270 Each 37.0000 11/06/27 Gasket Location Loc Qty Loc Code FP 20 31631 20

17

17

FP013

53480

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Friday, June 10, 2011 4:14:56 PM

Work Order ID: 70659 D3391-025 Parent Item: Parent Item Name: Aft Tube Assembly

Required Date: 6/30/2011 Start Date: 6/10/2011 Start Qty: 1.00

Required Qty: 1.00

D3672-1

Manufactured No 270 Each

Loc Qty

1150

650

1,176.000

2

11/06/27

Phenolic Washer

No	

ST077 52505

Location

ST281

64177

66821

Location

ST074

500 26 26 260 Each

1,634.000

Loc Code

ALS4-1032-130 Purchased

Insert

No)	

ST282 117717

117331

Loc Oty 8 1626 1626 270 Each Loc Code

12 12

1,239.000

ALS4-1032-225 Purchased Insert

> Location ST282 110768 117717

Loc Qty 1239 439 800

Loc Code

XIZ

									
W/O:			W	ORK ORDER CHANGI	ES				•
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Friday, June 10, 2011 4:14:56 PM

Work Order ID: 70659	025				 [1]					
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DART AEROSPACE LTD	Work Order:	70659
Description: Float Skidtube (412)	Part Number:	D3391-3
•		
Inspection Dwg: D3391 Rev: H		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Х	First Article	Prototype	9

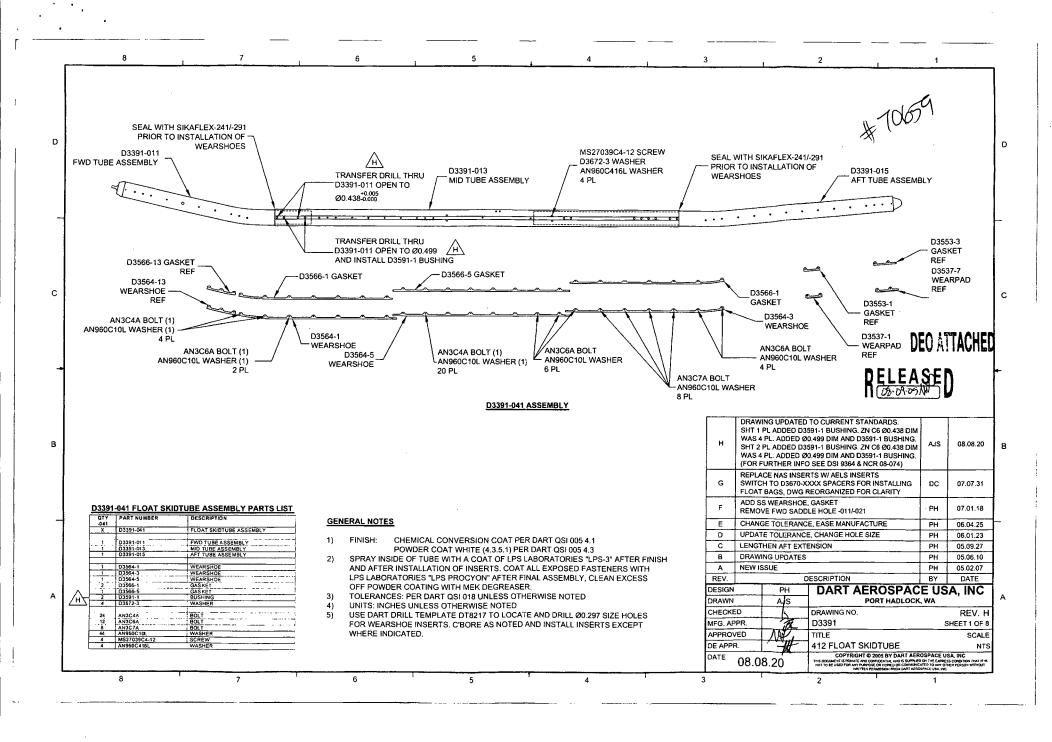
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Measured by: Paris Date: 11/0

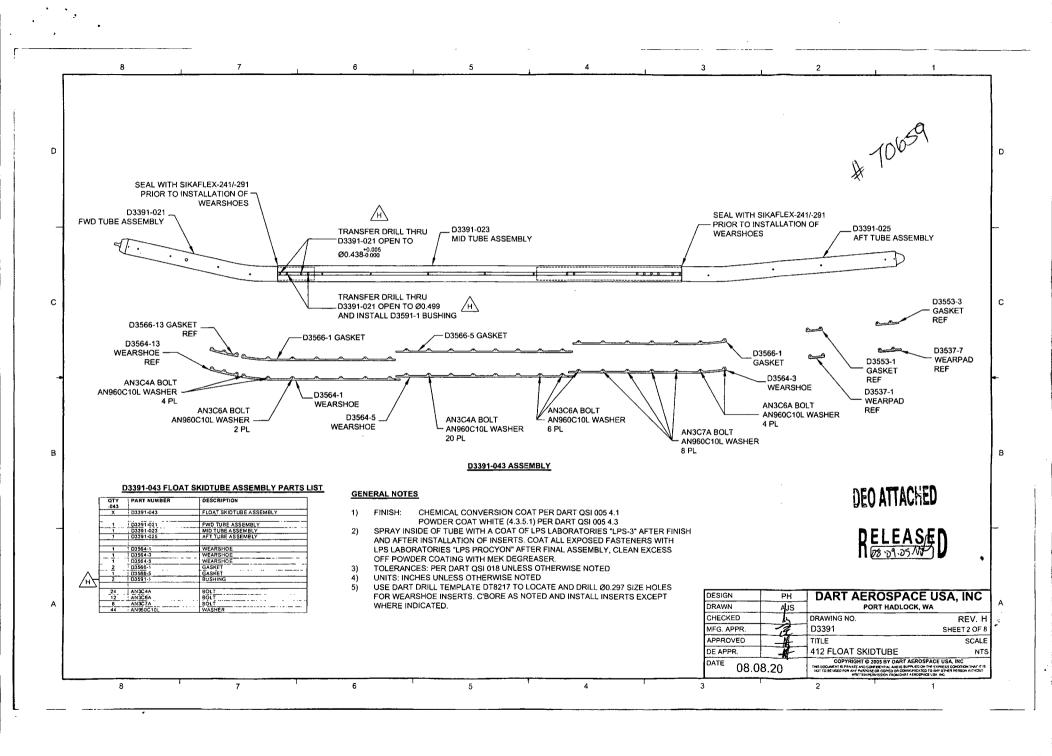
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0.200	+/-0.010	0.281	/		41	()
3.520	+/-0.010	3.522	~		Mic	GA-10
0.687	+0.010/-0.000	0,690	\.\.\.\.\.\.		Vern	6A-01
R0.062	+/-0.010	RO.063	-	The same of the sa	R-6	rcf.
Ø0.484	+0.005/-0.001	90.488	~	7,	Vern	GA-01

Rev	Date	Change	Revised by	Approved
A	06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	· .
В	06.06.19	Dwg revision update	KJ/JLM	
С	07.04.20	Ø0.208 dimension removed	KJ/JLM	
D	07.09.06	0.400 dimension removed	KJ/JLM	-
E	07.11.23	Dwg Rev. updated	KJ/EC/DD	
F	09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM]	
G	09.11.16	Dimension 0.200 removed	KJ KJ	1
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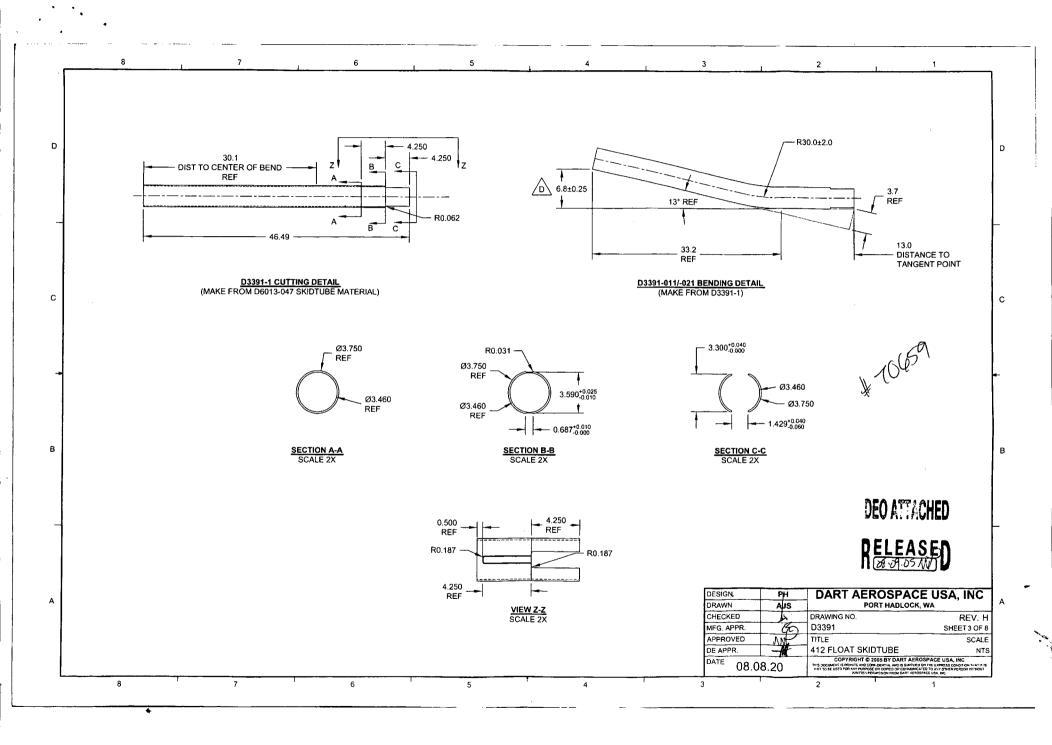


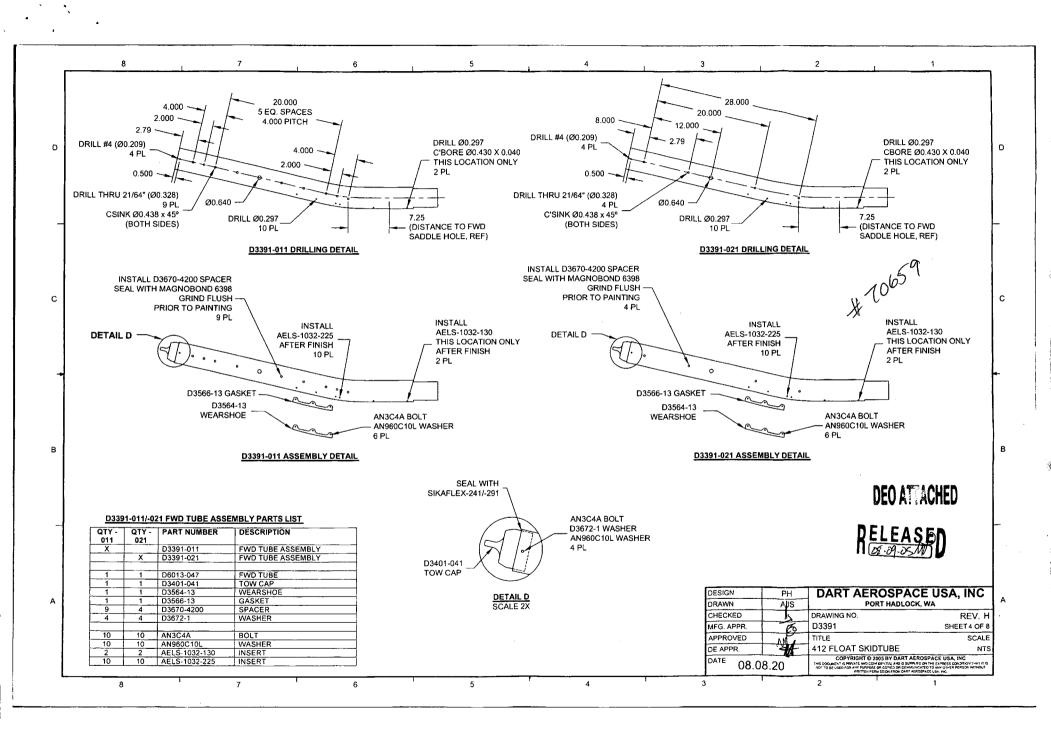


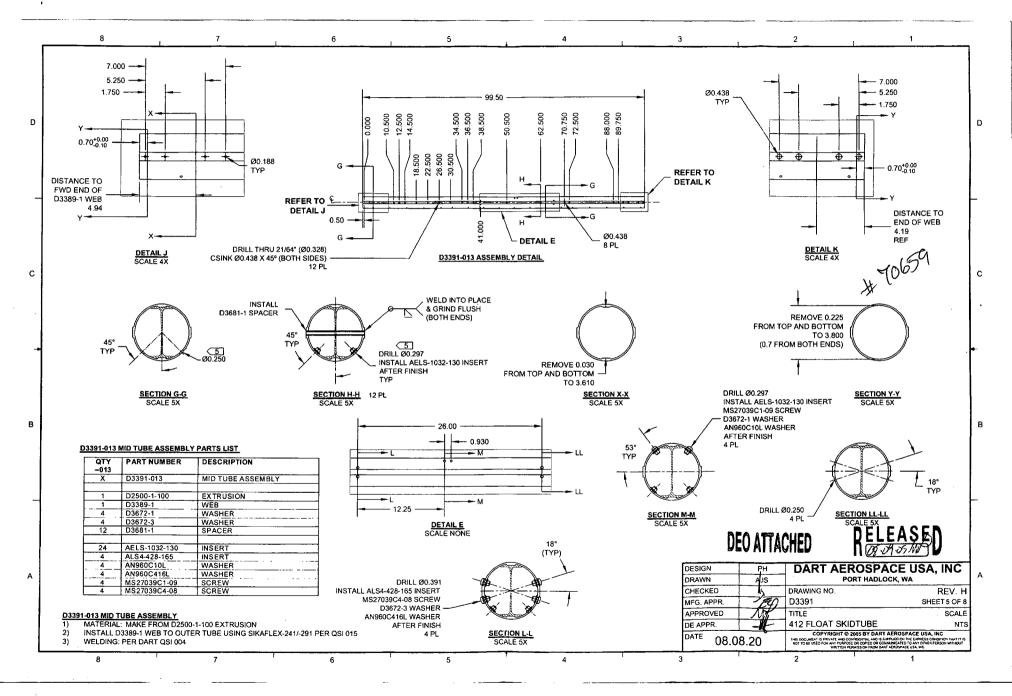
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W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector		
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			- 10-Mars de 17-						
Part No: PAR		PAR #:	Fault Cat	egory:	NCR: Yes No DQA: Date:				
Resolution:		esolution:	Disposition: Q			A: N/C Closed: Date:			
NCR:		V	VORK ORI	DER NON-CONFORMA	ANCE (NCF	₹)			_
DATE	STEP	Description of NC	1	· · · · · · · · · · · · · · · · · · ·	Section B Veri		ication Approval	Approval	
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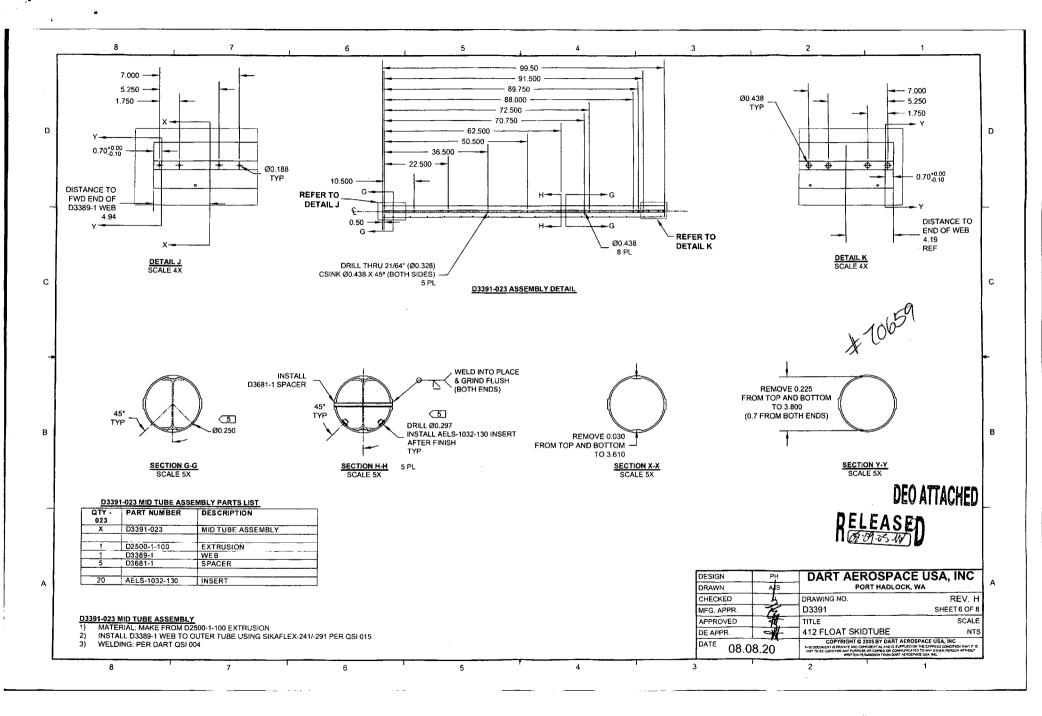
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W/O:	ĸ		V	ORK ORDER CHANGE	ES				
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No		PAR #:							
	R	esolution:	Disposit	ion:	QA: N/C	Closed:		Date: _	
NCR:	-	\	WORK OR	DER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC	Corrective Action Section			veriticatioi		Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		tion C	Chief Eng	QC Inspector
		·		s .					



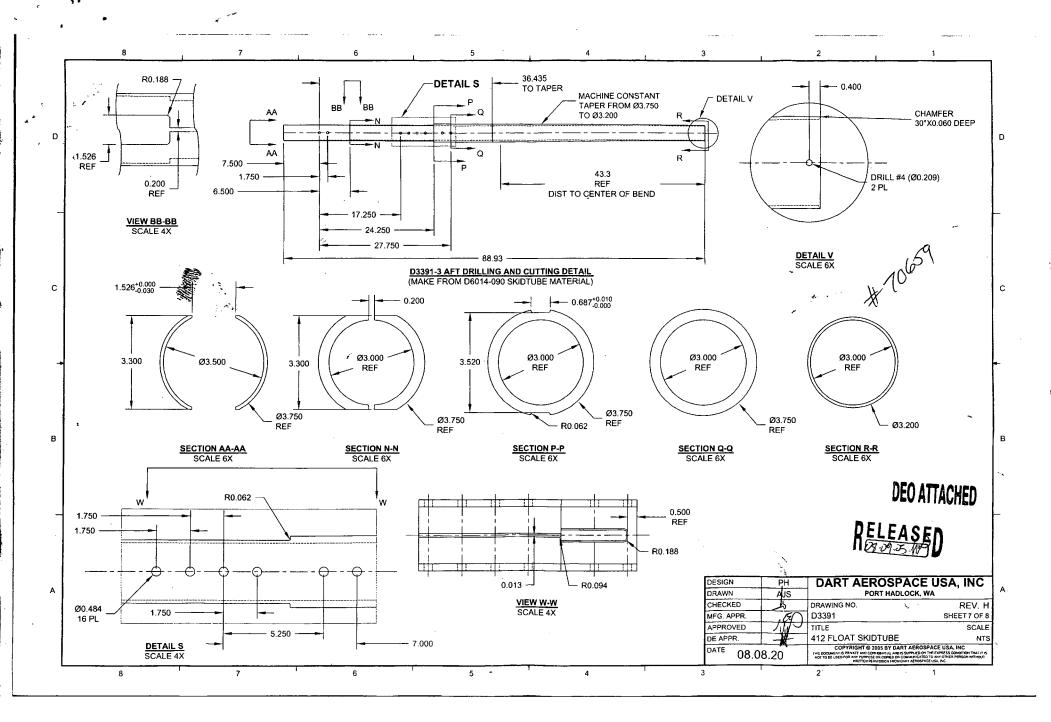




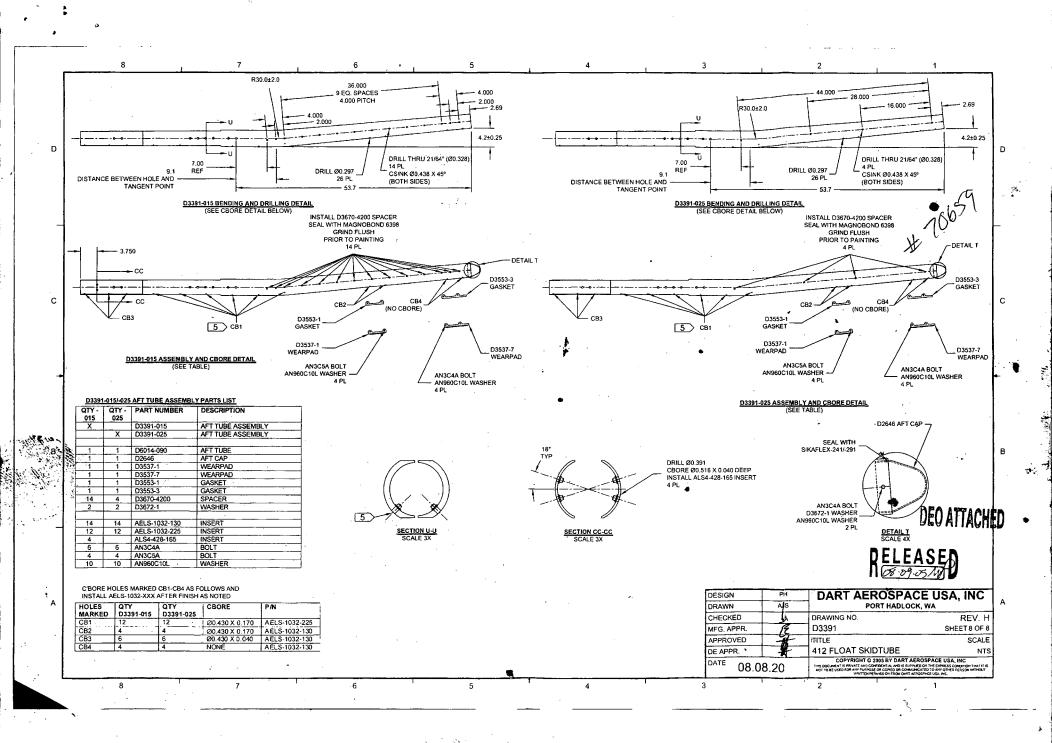
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DRAWING N	NO. TITLE		REV. H DA	ART AEROSPACE USA, I	NC D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOA	T SKIDTUBE	i	ENGINEERING ORDER	D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	A?	CHECKED	1	MFG. APPR.	APPROVED NW	DE APPR.	
DATE	09.09.23	DATE O4.	04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	6

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



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